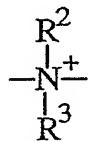


1. Linear polyammonium-polysiloxane copolymers containing the repeating unit

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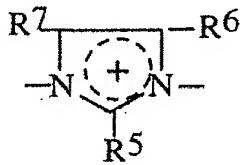
-[Q-V-]- (I)

in which Q is selected from the group consisting of



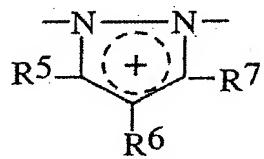
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a quaternized imidazole unit of the structure



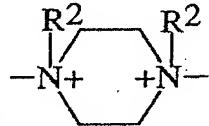
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a quaternized pyrazole unit of the structure



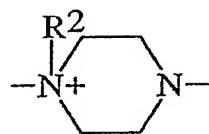
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a diquaternized piperazine unit of the structure

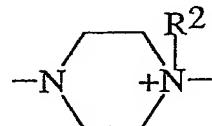


a monoquaternized piperazine unit of the structure

ACT 3A ABORT

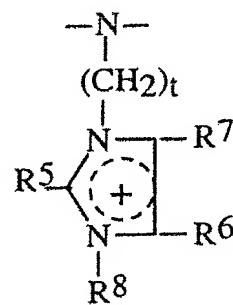


a monoquaternized piperazine unit of the structure



a monoquaternized unit of the structure

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in which R^2 is a monovalent, straight-chain, cyclic or branched, saturated, unsaturated or aromatic hydrocarbon radical having up to 100 carbon atoms, which may contain one or more groups selected from $-\text{O}-$, $-\text{NH}-$, $-\text{C}(\text{O})-$ and $-\text{C}(\text{S})-$, and which may if desired be substituted by one or more substituents selected from the group consisting of a hydroxyl group, an unsubstituted or substituted heterocyclic group preferably containing one or more nitrogen atoms, amino, alkylamino, dialkylamino, ammonium, polyether radicals and polyetherester radicals, and, if there are two or more groups $-\text{CONR}^2-$, they may be identical or different,

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R^3 has the definition of R^2 , it being possible for R^2 and R^3 to be identical or different, or

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R^2 and R^3 together with the positively charged nitrogen atom form a five- to seven-membered heterocycle, which if desired may additionally contain one or more nitrogen, oxygen and/or sulfur atoms,

R⁵, R⁶ and R⁷ can be identical or different and are selected from the group consisting of hydrogen, halogen, hydroxyl group, nitro group, cyano group, thiol group, carboxyl group, alkyl group, monohydroxyalkyl group, polyhydroxyalkyl group, thioalkyl group, cyanoalkyl group, alkoxy group, acyl group, acyloxy group, cycloalkyl group, aryl group, alkylaryl group, and groups of the type -NHR^W, in which R^W is hydrogen, alkyl group, monohydroxyalkyl group, polyhydroxyalkyl group, acetyl group or ureido group, and pairs of adjacent radicals R⁵, R⁶ and R⁷ may, with the carbon atoms bonding them to the heterocycle, form aromatic five- to seven-membered rings, and

R⁸ has the definition of R², it being possible for R⁸ and R² to be identical or different,

15 Q not bonding to a carbonyl carbon atom,

V represents at least one group V¹ and at least one group V²

in which

20 V² is selected from divalent or trivalent, straight-chain, cyclic or branched, saturated, unsaturated or aromatic hydrocarbon radicals having up to 1000 carbon atoms (not including the carbon atoms of the polysiloxane radical Z², defined below) and containing, if desired, one or more groups selected from

-O-, -CONH-,

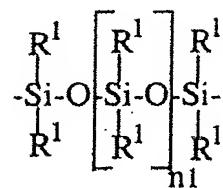
-CONR²-, in which R² is as defined above,

30 -C(O)- and -C(S)-, and

the radical V² may if desired be substituted by one or more hydroxyl groups, and

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the radical V² contains at least one group -Z²- of the formula



in which

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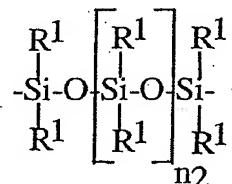
R¹ can be identical or different and is selected from the group consisting of C₁ to C₂₂ alkyl, fluoro(C₁-C₁₀)alkyl and C₆-C₁₀ aryl, and n₁ = 20 to 1000,

10 V¹ is selected from dihydric or trihydric, straight-chain, cyclic or branched, saturated, unsaturated or aromatic hydrocarbon radicals having up to 1000 carbon atoms, which if desired may contain one or more groups selected from

-O-, -CONH-,

15 -CONR²-, in which R² is as defined above, it being possible for the groups R² in the groups V¹ and V² to be identical or different,

-C(O)-, -C(S)- and -Z¹-, in which -Z¹- is a group of the formula



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in which

R¹ is as defined above, it being possible for the groups R¹ in the groups V¹ and V² to be identical or different, and

25 n₂ = 0 to 19,

and the radical V¹ may if desired be substituted by one or more hydroxyl groups,

with the provisos

- that the radical V^1 may not contain any ester group(s) $-C(O)-O-$ and/or $-O-C(O)-$,
- 5 - that the trivalent radicals Q and the trivalent radicals V^1 or V^2 serve exclusively for saturating one another within the linear main chain of the stated polysiloxane copolymers, and
- that in the stated polysiloxane copolymer the molar ratio

10 $V^2/V^1 \neq 1,$

and in which the positive charges resulting from the ammonium groups are neutralized by organic or inorganic acid anions,

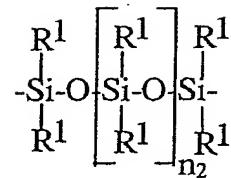
15 and the acid addition salts thereof.

2. Linear polyammonium-polysiloxane copolymers according to claim 1, in which V^2 is a group of the formula

20 $-V^{2*}-Z^2-V^{2*}-$

in which Z^2 is as defined above and V^{2*} is a divalent straight-chain cyclic or branched, saturated, unsaturated or aromatic hydrocarbon radical having up to 40 carbon atoms, which if desired may contain one or more groups selected 25 from $-O-$, $-CONH-$, $-CONR^2-$, in which R^2 is as defined above, $-C(O)-$ and $-C(S)-$, and the radical V^{2*} may if desired be substituted by one or more hydroxyl groups.

3. Linear polyammonium-polysiloxane copolymers according to claim 1 or 2, in 30 which the group V^1 is selected from divalent, straight-chain, cyclic or branched, saturated, unsaturated or aromatic hydrocarbon radicals having up to 600 carbon atoms, which may if desired contain one or more groups selected from
 $-O-$, $-CONH-$, $-CONR^2-$, in which R^2 is as defined above, $-C(O)-$, $-C(S)-$ and
35 $-Z^1-$, in which Z^1- is a group of the formula



in which

R^1 is C_1 to C_3 alkyl, fluoro(C_3 - C_6)alkyl or C_6 aryl, and

5 n_2 is as defined above.

4. Linear polyammonium-polysiloxane copolymers according to one of claims 1 to 3, in which the molar ratio V^2/V^1 complies with the relationship

10 $\text{V}^2/\text{V}^1 < 1.$

5. Linear polyammonium-polysiloxane copolymers according to one of claims 1 to 4, in which the molar ratio V^2/V^1 complies with the relationship

15 $0.0005 < \text{V}^2/\text{V}^1 < 0.9.$

6. A process for preparing the linear polyammonium-polysiloxane copolymers according to one of claims 1 to 5, in which

20 a) at least one amine compound selected from a diamine compound and/or a primary or secondary monoamine compound is reacted with at least two difunctional organic compounds capable of reacting with the amino functions of the amine compound, the molar ratio of the organic compounds being chosen so as to meet the condition $\text{V}^2/\text{V}^1 \neq 1$,

25 b) at least two moles of an amine compound selected from a diamine compound and/or a primary or secondary monoamine compound are reacted with one mole of a difunctional organic compound capable of reacting with the amino functions of the amine compound, to form a diamine compound (monomer), which is subsequently reacted with at

30 least one amine compound selected from a diamine compound and/or a primary or secondary monoamine compound and with at least one further

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9. The use according to claim 8 for fiber treatment and/or fiber finishing.

10. Compositions comprising at least one linear polyammonium-polysiloxane copolymer according to any one of claims 1 to 5 or at least one of the linear polyammonium-polysiloxane copolymers obtained according to one of claims 6 or 7, together with at least one further ingredient customary for the composition.

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11. A composition according to claim 10, being a laundry detergent composition or a cosmetic composition.

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